

FIG. 1

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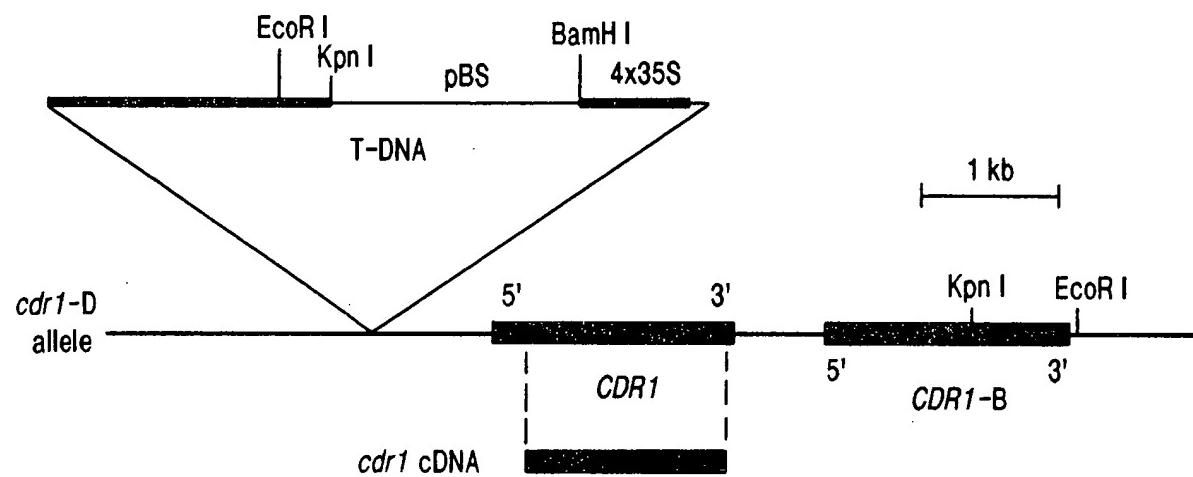


FIG. 2

Deduced amino acid sequence (SEQ ID NO:2)

MASLFFSVLSSLCLLSSLFLSNANAKPKLGLFTADLIHRDSPKSPFYNPME^TSSQRLRN^AIHRSVN^RVFH^FTEKDNTPQPQ
 IDLTNSGEYLMNVSIGTPPFIMAJADTGSDLLWTQC^CAPCDDCYTQVDPLF^DPKT^SSTYKDV^SCS^SSQCTA^ENQASC^S
 TN^DNTCSYSLSYGDN^SYTKGNIAVDT^LTLGSSDTRPMQLKNNAGT^FNKKGS^GIV^ILG^GGP^VSLIKQLGDSID
 GKFSYCLVPLTSKKDQTSKINFGTN^AIVSGSGVV^VSTPLIAKASQET^FYYLT^LKSI^SVGS^KQI^QYSGSD^SSESEGNIIDS
 GTTL^LLPTEFYSELEDAVASSIDA^EKQDPQSGLSLCYSATGDLKVPVITMHFDGADWKL^DSSNAFVQVS^KDLVCF^AFR
 GSPSF^SIYGNVAQMNFVLVG^YDTVSKTVSF^KPTDCAKM

genomic DNA for CDR1 (SEQ ID NO:1)

GGACATTCTT GGTCTACTCC AAGAACATCA AAGATCCAGT CTCAGAAAGAC CAGAGGGCTA TTGAGACTTT
 TCAACAAAGG GTAATATCGG GAAACCTCCCT CGGATTCCAT TGCCCAGCTA TCTGTCACCT CATCGAAAGG
 ACAGTAGAAA AGGAAGATGG CTCTACAAA TGCCATCATT GCGATAAAAGG AAAGGCATTC GTTCAAGATG
 CCTCTACCGA CAGTGGTCCC AAAGATGGAC CCCCACCCAC GAGGAACATC GTGGAAAAAG AAGACGTTCC
 AACACAGTCT TCAAAAGCAAG TGGATTGATG TGATATCAA GATGCCGAGAG TTATTTTATT TAATTTGTAC
 TATATTATA TTGTGATGTT TCTCTTAAT TAAAATTTA TGACTATATA TATATATATA
 TATATATATA TATATACATT ATTGAGATAG ATAATGAATA CATTAGTTA TCATTAATT TAATAGGTAC
 TGATCTTCA ATTATTTCA AACGATTCTC TGTCAATTTC TTGATATTTC TAAACTAAA TCCATTTTT
 AAAAATAGA CTGATTTAAC AAACATTAAC AGTTAATTGT TTCTGTACAT GCCACGGATC GAAATGAGT
 CAGTAATGA ATATTTTA CCTAAAGTC CACATTGTAT ATACCTAAGT AAATGATACA GACCAAAATT
 AGAAAGATCAA GAATCCTTAT ATTACGAAAA TATCCGGTTA CATTCCGGTTGA ATACTTTAAT GAAGAATCTA
 GGATAATAATT AAAGAAGAAG AAAATATGTA AGCATTAGA ATAAAATAA CTTGGAGATA TAAGCAAACC
 ATAAACACGT CCATATGAAT GAATGGTACA CTCCCTCGTAA ATAAATAAAT ATATGCATCA AAATGAGAAA
 ATCTTCACTT TTATTTATC TTAATACGTC AGATTCTCTG AACACAAAAT GATAATAATT GTAGATAACT
 TACTCAAAAC GTAAGAACTC ACTATCTATT ATCATTATT AACCACCATC TCATTAATCT TATAAATATG
 TACTCATTAG ATGTCAAAA GTAAAACCTC ACAATACACT TTAAACTACA AATCAAAACA ATGGCCTCTC
 TATTCTTCTC AGTTCTCTG TCTCTTGT TACTCTCTTC ACTTTTCTC TCAAATGCAA ACGCTAAGCC

FIG. 3A

AAAACTAGGC TTCACCGGG ATCTAATCCA CCTAAATCGC CGTTCTATAA CCCGATGGAA
 ACCTCTCCC AGCGTCTACG AAACGGCATC CACCGATCCG TTAACCGTGT TTCCATTTC ACTGAAAAGG
 ATAACACACC ACAACCACAG ATTGACCTCA CGTCAAAATAG CCTCATGAACG TATCCATTGG
 AACACCTCCCT TTCCCCGATCA TGCCCATCGC CGACACCGGA AGTGATCTCC TCTGGACGCA GTGCCACCA
 TGCGATGATT GTTACACTCA AGTTGATCCT CTCTTGGACC CAAACACGTC TTCCACATAC AAAGACGTTT
 CTTGCTCTTC AAGTCATGT ACTGCGCTAG AAAATCAAGC CAAATGACA ACAATGACA ACACCTGGTC
 TTACTCATGG TCTTACGGGG ATAACCTATA CACAAAGGGT AACATCGCCG TGGATACCT AACGCTCGGC
 TCCAGCGATA CCCGGCCAT GGAGCTTAAG AATATTATA TCGGTTGTGG TCACAAAC AAC
 TTAACAAGAA AGGCTCTGGA GGTAAATTCT CATACTGCTT GGTTCCCTTA ACTTCCAAA AGGATCAAAC
 CTCACATCGAC CCAATGCCAT CGTGTGGGA TCTCAACTCC TCTGATCGCA AAGGGGCTC
 AACTTCGGAA ACCCTAAAT CTATTACCA ACCCTAAAT CCATTAGCGT GGGAAAGCAAG
 AAGAGACCTT AGAGACCTT CTATTACCA AGGAGCGAGG GAAACATCAT CATCGATTCA GGCACAACTT
 TTTACTCCG AGCTCGAGGA TGCGGTTGCA TCCCTCTATCG ATGCTGAGAA GAAGCAAGAT
 GTTGTAGCT ATGTTACAGT GCAACCGGAG ATCTAAAGT TCCAGTCATT ACTATGCCATT
 CGATGTGAAG CTGACTCCT CCAATGCCCT TGTACAAGTC TCGGAGGATT TGGTTGGCTT
 GGAAGCCCGA GTTCTCCAT ATACGGTAAT GTGGGCCAGA TGAACCTCTC GACACTGTT
 CCAAACGGT GTCAATTAAAG CCAACAGATT GTGCAAAAGAT GTAGTGTGTT CATCTAACAA
 AATTGTGTT TCAAATTCAA TAATGGCTGA TTAGTTCA GCCTTAGTGC ATGCTTGGTG
 CATGTAGTAG TCTATCTTT CAAGGGAGAG TTAAATTCTC GACCTTTGT TCTTAATTCA
 TTTCCTTGAATTTCA CAATTAAAAT CATGAAACC TTATCTCCG TAACTATT
 TCTAATCTCT GTTTAGTTT TTTCTATT TACTAATAAA AACCAAAAT GACAAGACAA
 TTGTTCAAATAA TTAGTTTTT ATAAATCATCT CTATGATGTA ATCTAGAAAT ACTACTTTG
 ATTATTTGAA TCAAATCTCT GTTTAGTTT ATAAATAAA ATCTAGAAAT ACTACTTTG
 ATTATTTGAA TCAAATCTCT GTTTAGTTT ATAAATAAA ATCTAGAAAT ACTACTTTG
 ATTATTTGAA TCAAATCTCT GTTTAGTTT ATAAATAAA ATCTAGAAAT ACTACTTTG
 AAAATAAAAT ATATCTTATA AGAAATAAAAT ATATTTTATA TTTCTATAA ATCATACATT
 AGGTGGATGA TACATGGCCT AAATTAGATC ATGAATCATA AAAATCCAGC TTGATGATAAA ATAAACAGG

FIG. 3B

ATGAATGGTA CAATCCTGGT CAAAAAAAT AAAAGGAAA GTTATATGCA TTAAAATGAG AAAATCTTCG
 CTTTATTGT TTCTTATTAA TCAGATTCTC TAAATGTAAGA TGACACAATT TTACTAAAAA
 TGTAGAACAT TCATCATGTA CTACCATTTA TGAATCCCTA TCCAATTTGAC TTACTCATCA
 GATTGTCAAAG AGTAAAACCT GACCATTCAG GCAATCACTT AAACTACAAT CTAAGAAAAT GGCCTCTCA
 TTCACTTCAC TTCTCTTGTCTC TCTATGTTA TTCTCTTCTC CTATTTTCTC AAACGCCAAC GCCAAACCAA
 AACTAGGGCTT CACCGGGAT CTGATCCACC CGGATTCTCC TAAATGCCA TTCTATAACC CGGGGGAAAC
 CCCTTCCCAA CGTATGAGAA ACGCTATCCA CCGATCCTT AACCGTGCTT CCCATTTAG TAATCTTTT
 GAAAAGGATG CATCACTTAA CGCACCAAA ACTGATATCA CCAAATATT CGGTATATAT CTTATGAACG
 TATCCCTTGG GAGTTGGAC ACCTCCCGTC CCAATCATGG CGGCCGCTGA CACCGGAAGT GATCTCATCT
 GGACGGCACTG CAAACCATGC GATGATTGTT ACACTCAAGT TGATCCTCTC TTTGACCCCTA AAGGGCTTC
 CACATACAAA GACGTTTCTT GCCCTCAAG CCAATGTTAG GCTCTAAAGAAT ATGATGCTTC TTGTTCAAA
 AAAGACAAACA CTTGCTCTTA CTCATGAAT TACGGGGATA ACTCATACTC ACGGGGTAAT GTCGCTGTGG
 ATACCTTAAC GCTCGGCTCC ACCGATAACC GTCCGGTGC GGTAAAGAAT ATTATCATGG GTTGTGGTCA
 CGAAAACGCT GTAACATTAA GAAACAAAGAG CTCTGGAAATC GTGGGACTTGG ATCTGCTGGT ACCTGAAAAAT GATCAAACGA
 GTTAACAAAC TCGGAGACTC CATCGAAGGT AAATTCTCAT ACTGCTGGT GGAACCTGTC TCAACTCCCT TGGTGTGAA
 GCAAGATTAG TTTCGGAAACC AATGGGGTTG TGTGGGACC GCTTAACCCCT AAAATCTTAAACCTT ACCGTGGGAA GCAAGAATAT GCCAACCCCCA
 GTCTCCAGAG ACCITCTATT TTCTAACCCTT GATGGTCATC GATTCCGGCA CAACTCTAAC TCTGTACCT GGGAAATATT
 GGCTCTGATA TCAAGGGAAA CATGGTCATC GATGGTCATC GATTCCGGCA CAACTCTAAC TCTGTACCT GGGAAATATT
 ATTCCAGAT TGAGAGTGGT GTTGGGGTCTT TAATCGATGC AGAGAGGTGG AAAGATGAAA GAATGGGTTCA
 GAGTCTTGA TACAATGCAA CGCAGATCT GAAAGTCCC GTCATTACTA TGCATTCTGA TGGAGCAGAT
 GTGAAGCTG ATTCCCTATAA TTCAATTCTTAA AAAGTCTCAG ATGATTGGT TTGCTTTGCC TTTGGCTTGA
 ACTTGATTAC GAGGGATGGG ATATACGGGA ATGTGGGCC GAAGAACTT CTGGTGGAT AGCACACTG
 TTCCAATCG TTGTCAATTAA AAAAACAGA TTGTGCAAAG ATGAGATGG TTCAGCTTAG CATGTGGCTA
 ATTCCCTTTTCAAAAGTATGTTTCAGTTATCATTGCTGATTGATTGAAATT

FIG. 3C

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FIG. 4A

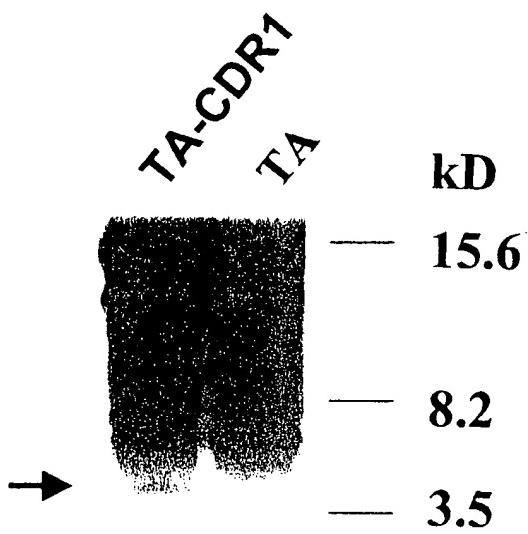


FIG. 4B